

CLAIMS

1. A method of treating asthma in an individual with albuterol, while reducing side effects associated with albuterol, comprising administering to the individual a quantity of an optically pure R(-) isomer of albuterol sufficient to result in bronchodilation, said R isomer being substantially free of its S(+) isomer.
- 10 2. A method of Claim 1 wherein the amount of the R(-) isomer of albuterol is greater than approximately 90% by weight *of total albuterol*.
3. A method of Claim 2 wherein the amount of the R(-) isomer of albuterol is greater than 99% by weight *of total albuterol*.
4. A method of Claim 1 comprising administering to the individual by inhalation from approximately 30 mcg to approximately 90 mcg of the R(-) isomer of albuterol per dose.
5. A method of Claim 1 comprising orally administering to the individual from approximately 1 mg to approximately 8 mg of the R(-) isomer of albuterol two to four times daily.

- Sub B' 1*
NK NO
- 05 6. A method of treating asthma in an individual with albuterol, while reducing side effects associated with albuterol, comprising administering to the individual a quantity of an optically pure R(-) isomer of albuterol sufficient to result in bronchodilation and at least one additional drug.
- 10 7. A method of Claim 6 wherein the additional drug is selected from the group consisting of: bronchodilators, antihistamines and analgesics.
- B* 7.8. A method of Claim ⁶/₇ wherein the analgesic is selected from the group consisting of: aspirin, acetaminophen and ibuprofen.

End

- Sub A' 15*
9. A composition comprising an optically pure R(-) isomer of albuterol and at least one additional drug.
10. A composition of Claim 9 containing at least 90% by weight of the R(-) isomer of albuterol.
11. A composition of Claim 10 containing at least 99% by weight of the R(-) isomer of albuterol.
- 20 12. A composition of Claim 9 wherein the additional drug is selected from the group consisting of: bronchodilators, antihistamines and analgesics.

Add B³

Add E¹

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